

Thursday, February 4

9:00 a.m. Hike - Earthquake Valley Panorama

4 Hours

Join Volunteer Naturalists Paul Larson and Mary Ekelund, for a moderate 4-mile hike up Plum Canyon to an overlook high over Earthquake Valley. Discover some interesting plants and geological features along the way. Meet at the entrance to Plum Canyon off Highway 78.

9:30 a.m. Talk & Those Rambunctious Ravens!

45 Minutes

Can you tell Ravens from Crows? Do you believe the myths and poems about Ravens? Come hear Volunteer Naturalist Joan Rosen give an outdoor presentation in the Nierenberg Plaza about our Borrego Ravens and their lively times.

11:00 a.m. Talk ABDSP Fossils – Surprises within Surprises

30 Minutes

In this 30 minute slide presentation investigate recent fossil finds with Volunteer Paleontologist and Naturalist Sandra Keeley. Meet at the Visitor Center Discovery Lab.

Saturday, February 6

8:00 a.m. - \$\$ - Hike of the Month: Grapevine Canyon area

5 hours

Leader: Mountain Lion expert, Mike Puzzo Fee: \$10

Explore various canyons within Grapevine Canyon, while learning about our neighbor, the mountain lion. Advance registration required. Call 760-767-4063 for details.

10:00 a.m. & - Junior Rangers

45 Minutes

Special program for children ages 7-12. Discover secrets of the desert environment. Sign up at the visitor center as space is limited.

6:00 p.m. Talk/Display 🖔 - Photo Contest Awards Ceremony & Reception 3 hours

Photo Contest judges will share what goes into selecting winning photographs at Borrego Springs Performing Arts Center. View the winning entries and celebrate all of the photographers at a 7:00 pm reception at Borrego Art Institute and bid on your favorite photographs in a silent auction. Call 760-767-4063 for details.

7:30 p.m. Campfire 👆 - Ranger Surprise

1 Hour

Join Ranger Steve Bier at the Borrego Palm Canyon Campfire Center for an evening campfire program.

ALL PROGRAMS ARE FREE OF CHARGE. PROGRAMS ARE HELD AT THE VISITOR CENTER (OPEN THURSDAY THROUGH MONDAY, 9-5) UNLESS OTHERWISE SPECIFIED.

DOGS ARE NOT PERMITTED ON TRAILS OR TOURS.



The Colorado Desert Archaeology Society
7th Annual Archaeology Weekend
Anza-Borrego Desert State Park Visitor Center
Borrego Springs, California
February 6-7, 2010

ARCHAEOASTRONOMY

The importance of the sky to Historic & Prehistoric People

Saturday, February 6, 2010

Events:

9:00-4:30	Silent Auction at the Begole Archaeological Research Center. Bidding closes 4:30 pm.
	Winning bids announced 5:00 pm. (Winners need not be present)
9:00-4:00	Native American basket and pottery display and demonstrations. (Craft items on sale)
9:30-4:00	Tours of the Archaeology and Paleontology Labs.

Groups depart Visitor Center front door approximately every half hour.

9:30-3:00 **Kids Activities:** Fun table, Archaeological dig, arts & crafts.

10:00-3:00 **Display**: **Desert Plant Use by Native Americans: food, clothing, & medicine**. By: ABDSP Volunteer Naturalist, Marge Hatcher.

12:00-1:00 **Talk: We have Wal-Mart the Native Americans had Desert-Mart.** By: ABDSP Naturalist Hank Barber.

1:00-3:00 **Pottery Making Demonstration** - Includes clay grinding and paddle & anvil construction techniques. By Archaeologist, Bonnie Bruce. Clay will be available for spectator participation.

3:00-5:30 **Free Ice Cream Social:** Announcement of silent auction winning bids at 5:00. Begole Archaeological Research Center.

Lectures:

11:00-12 Of Shamans & Stars... Mystery Circles of the Desert
By Park Volunteer Archaeologist Nick & Bonnie Clapp
1:00-2:00 Shamanistic Views of our Skies: Prehistoric Archaeoastronomy By Dr. G. Dicken Everson
2:30-3:30 Archaeoastronomy & Rock Art By Archaeologist Ken Hedges

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Sunday, February 7, 2010

Events:

9:00-2:00 Native American basket and pottery display and demonstrations. Craft items on sale.

9:30-12:00 Tours of the Archaeology and Paleontology Labs.

Groups depart Visitor Center front door approximately every half hour.

10:00-3:00 **Display**: **Desert Plant Use by Native Americans:** food, clothing, & medicine.

By: ABDSP Volunteer Naturalist, Marge Hatcher.

12:00-1:00 Walk: Desert Drug Store. By: ABDSP Certified Interpretive Guide Abby Barker

1:00-3:00 **Pottery Making Demonstration** - Includes clay grinding and paddle & anvil construction techniques. By Archaeologist, Bonnie Bruce. Clay will be available for spectator participation.

Lectures:

9:30-10:45 Ceramics Presentation & Workshop By: Patrick Quinn, Ph.D.

Field Trips

- 1. **Clark Lake Petroglyphs** Led by: Colorado Desert Archaeology Society volunteer, Chuck Bennett. A three mile round-trip hike to a rock art site at the base of the Santa Rosa Mountains to view petroglyphs, interpreted as an early Cahuilla style, which were pecked into the reddish-brown desert varnish covered boulders in the area.
- 2. **Indian Hill Rock Art Shelter** Led by archaeologist Joan Schneider and Steve Freers. A 3-mile round-trip hike to a rock art shelter with a visual demonstration talk on rock art as it applies to archaeoastronomy.

<u>Pre-registration and \$5.00 fee required for all field trips.</u> For reservations call ABF at 760/767-4063. During Archaeology Weekend: Check for last-minute field trip openings at the ABF table in front of the Visitor's Center.

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Sunday, February 7, 2010

7:00 am - \$\$ - Morning Light Photo Safari

4 Hours

Instructor: Paul Johnson

Fee: \$35, or \$25 for ABF members

Get tips from a pro on using morning light to capture the magic of Anza-Borrego! Advance registration required. Call 760-767-4063 for details.

Thursday, February 11

9:00 a.m. Hike - Badlands Bench with a View

3 Hours

Join Volunteer Naturalists Paul Larson and Mary Ekelund for a moderate $2\frac{1}{2}$ mile hike up a badlands wash to a memorial bench with a marvelous view. Learn about some interesting plants and geological features along the way. Meet at the intersection of Inspiration Wash and S-22 by driving east on S-22 past mile marker 28 for 1/2 mile.

10:00 a.m. Talk & - Those Rambunctious Ravens!

45 Minutes

Can you tell Ravens from Crows? Do you believe the myths and poems about Ravens? Come hear Volunteer Naturalist Joan Rosen give an outdoor presentation in the Nierenberg Plaza about our Borrego Ravens and their lively times.

11:00 a.m. Talk & - Cahuilla Medicine Chest

45 Minutes

Join Volunteer Naturalist Mike Bigelow to learn about the medicine chest full of effective treatments that the Cahuilla people utilized long before the first Europeans arrived.

1:00 p.m. Walk & - Desert Scents

1 Hour

Enjoy an easy stroll through the visitor center garden with Volunteer Naturalist Ingrid Coffin. Use your senses on this plant exploration program that meets at the visitor center entrance.



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Saturday, February 13

8:00 a.m. Hike - Roving Naturalist in Borrego Palm Canyon

3 Hours

Volunteer Naturalist Joe Hopkins will be roaming the Borrego Palm Canyon Trail searching for bighorn sheep and other interesting features along the trail. Look for him as you hike to the palm oasis. As an experienced naturalist, he can answer many of your questions about the park. If bighorn are about, he is sure to find them! This is not a guided hike.

9:00 a.m. Walk – Behind the Ghost Mountain Story: Facts and Fabrications 3 Hours

Learn about the Marshall South family and their experiment in primitive living on a remote mountain top. Join Volunteer Naturalists Mike and Jan Bigelow on this 2 mile round-trip, steep but scenic walk up Ghost Mountain. Bring water, hat, and sturdy footwear. Meet at the Marshall South Home Trailhead in Blair Valley, 3.2 miles off Highway S2.

9:00 a m. Talk & - Lifestyles of the Hot and Thirsty

30 Minutes

Cactus and succulents have some amazing adaptations that help them survive in extremely hot and dry climates. This talk will reveal some little-known facts about how cacti work overtime to stay alive. Volunteer Naturalist Don Rideout will discuss the most common cactus species of Anza-Borrego as we stroll through the Visitor Center garden.

10:00 a.m. & - Junior Rangers

45 Minutes

Special program for children ages 7-12. Discover secrets of the desert environment. Sign up at the visitor center as space is limited.

11:00 a.m. Talk 🕹 -Modern Warrior/ Ancient God..... The Scorpion

45 Minutes

Join Volunteer Naturalist Gerald Ehly to learn more about the fascinating life of the scorpion and its significance to different cultures all over the world. Meet in the Discovery Lab.

12:00 p.m. Talk & - Tracks Tell Tales

45 Minutes

Tracks tell the fascinating stories of the lives of our animal neighbors in the Anza Borrego Desert. Meet our Volunteer Naturalist/Tracker Beth Shugan in the Discovery Lab and start to learn to read these tales of life, and death, in the desert.

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1:30 p.m. Talk 🖔 - Desert Hare or Our Furry Friends

1 Hour

Come and discover the wildlife of the park with Volunteer Naturalist Rosemary McDaniel. Meet in the discovery lab.

1:30 p.m. Walk - Small World

1 Hour

Everyone is impressed with the vast dimensions and stunning vistas of Anza Borrego Desert State Park. The desert is equally impressive on a micro-scale. Stretch your perspective and explore the natural history of the park up close and personal with Volunteer Naturalist Daniel Hellyer for an easy walk at the Borrego Palm Canyon Trail in the campground.

5:00 p.m. Reception & - "Wild & On the Edge" Photo Exhibit

Join us at a wine and cheese reception for "Wild & On the Edge," a photography exhibit featuring bighorn sheep by San Marcos resident Jeff Young. Young's photographs will be on display from February 12 – 25, 2010 at Anza-Borrego Foundation's State Park Store in Borrego Springs. Young has documented rarely seen affectionate, playful, and sometimes violent behaviors of the endangered sheep in their desert habitat of Anza-Borrego Desert State Park. Call 760-767-4063 for details.

7:00 p.m. Talk & - From Dust to Dust (Desert Skies Outdoor Lecture Series) 2 Hours

Instructor: Dennis Mammana Fee: suggested donation \$5

Journey back in time in search of our cosmic roots and ponder our ultimate destiny. Popular astronomer Dennis Mammana enlightens and inspires us with the mysteries of the cosmos, followed by telescope viewing (weather permitting). Bring blanket and flashlight with red lens or covering to the Nierenberg Plaza at ABDSP Visitor Center. No registration required. Call 760-767-4063 for details.

7:30 p.m. Campfire 🖔 - Mysteries of Anza-Borrego

1 Hour

Take a deeper look into the past. Join Ranger Josh for a trip into the earlier times of Anza-Borrego Desert State Park. Meet at the Borrego Palm Canyon Campfire Center.

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Sunday, February 14

10:00 a.m. Hike - Voices, Visions, and Views of Alcoholic Pass

3 Hours

Hike Alcoholic Pass! Join Volunteer Naturalists Ron & Peg Poitras to experience and discover the prehistory, history, and present day journey of those who have used this trail for food, water, work, and fun. This is a 3 hour excursion into the pass. Meet at the north end of DiGiorgio Road. This is a strenuous but relatively short hike, bring water, snacks and wear hiking boots.

10:30 a.m. Talk & - Our Furry Friends

1 Hour

Come and discover the wildlife of the park with Volunteer Naturalist Rosemary McDaniel. Meet in the discovery lab.

1:00 p.m. Talk 🖔 - What Kind of Bird is That? – Basic Birding in Borrego 45 Minutes

Visitors to Anza-Borrego Desert State Park often ask about birds they've seen. There are over 300 bird species found in the park, but there are a few that visitors will almost always see. Join Volunteer Naturalist Thad McManus in the Discovery Lab to learn about the most commonly seen birds in the park, as well as where to find them. Novice birders can easily learn 15 different species, and more experienced birders will learn some fascinating new insights into the behavior of some species they already know.

9:00 a.m. Talk – Freeman Acquisition Tailgate Tour

2.5 Hours

Join Ranger Paul Reisman for a journey through some of the most pristine and challenging off road country around. Learn what life was like here in the past and learn how you can help protect and preserve these lands while keeping them open for use. Meet at the intersection of Holly Road and S-22. **High clearance 4x4 required.**

Monday, February 15

11:00 a.m. Talk & - "Song Dog" ... The Wiley Coyote

45 minutes

Have you heard them at night? Have you seen them...even during the day? Coyotes are increasing their range and increasing their numbers, and they're right here in Anza-Borrego and in town too. Join Volunteer Naturalist Thad McManus as we explore the myths and realities of our desert neighbor.

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Thursday, February 18

9:00 a.m. Hike - Pictographs - What Were They Trying to Say?

4 Hours

Join Volunteer Naturalists Paul Larson and Mary Ekelund on a moderate 3-mile roundtrip hike through a beautiful desert valley to a panoramic overlook. Along the way, we will look at some interesting plants, morteros and rock art. Meet at the entrance to Blair Valley, about a 45 minute drive from the Visitor Center.

Friday, February 19

7:30 a.m. Bird Walk

Join Volunteer Naturalist Ann Keenan for an easy walk around the Visitor Center Garden looking for the common birds of our desert. All birding levels welcome. Meet in the Visitor Center parking lot. Please bring binoculars and a field guide if you have them. Rain cancels.

Saturday, February 20

7:30 a.m. Talk - The Borrego Hawk Watch Experience

1 Hour

Discover the hawk watch phenomenon with Volunteer Naturalist and hawk watcher Joe Hopkins. Meet at the Visitor Center flagpole to caravan out to the site, observe hawk watchers on duty and, we hope, see migrating raptors. Bring binoculars, water, snacks, and appropriate clothing.

9:00 a.m. - \$\$ - Flowering Plants of the Low Desert

7 Hours

Instructor: Michael Wangler Fee: \$45, or \$35 for ABF members
Learn how to identify plant, flower, and fruiting structures in low-desert plants, and gain hands-on

Learn how to identify plant, flower, and fruiting structures in low-desert plants, and gain hands-on experience using a botanical key in the field. Advance registration required. Call 760-767-4063 for details.

10:00 a.m. & - Junior Rangers

45 Minutes

Special program for children ages 7-12. Discover secrets of the desert environment. Sign up at the visitor center as space is limited.

11:00 a.m. Talk 🕹 - Modern Warrior/ Ancient God..... The Scorpion

45 Minutes

Join Volunteer Naturalist Gerald Ehly to learn more about the fascinating life of the scorpion and its significance to different cultures all over the world. Meet in the Discovery Lab.

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12:30 p.m. - \$\$ - Desert Stargazing for Beginners

8 Hours

Instructor: Dennis Mammana

Fee: \$45, or \$35 for ABF members

This very popular workshop is designed to help you explore and enjoy Borrego's unparalleled dark skies. Evening stargazing will follow, for in-the-field practice of new skills. Advance registration required. Call 760-767-4063 for details.

1:00 p.m. Walk & - Desert Drug Store

45 Minutes

Join Naturalist Abby Barker to discover the Native American drugstore, the creosote bush. This is an easy walk around the visitor center garden. If the weather is too bad or hot, Abby will do a power point program in the Discovery Lab.

1:00 p.m. Hike – Discovering the Archaeological History of the Morteros

2 Hours

Discover the hidden secrets of an ancient Native American village site. Join Volunteer Archaeologist and Naturalist Sam Webb to explore both rock art and historic milling features. This 1.5 mile hike is over uneven terrain. Be sure to bring the usual water, hat, and sturdy footwear. Meet at the Morteros trailhead in Blair Valley, 3 miles off Highway S-2.

7:30 p.m. Campfire 🕹 - "Boulders, Palm trees and Water, Oh MY!"

1 Hour

What happens when a 16 foot wall of water comes pouring out of Borrego Palm Canyon? Join Ranger Jennifer Rodrigues at the Borrego Palm Canyon Campfire Center as she tells all.

Sunday, February 21

10:00 a.m. Talk & - Ok, Now What Do We Do?

1 Hour

Whether you are a first time visitor or one who has not had the opportunity to visit sections of the park, join Volunteer Naturalist Ron Shugan for a slide show presentation meant to provide an overview of the many activities and sights of Anza-Borrego Desert State Park. This series of slides will make you want to get out and visit some of the many wonders of California's largest state park. Meet in the Visitor Center Discovery Lab.

10:00 a.m. Hike - Cool Canyon

1 Hour

Hike into Cool Canyon for a close up look at lichens and crystals. Moderate hike 1 mile with climbs over small rock walls. Meet Ranger Jeri Zemon on Highway S-2 between mile-marker 21 and 22 (south end of Shelter Valley).

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11:00 a.m. Talk & - In Search of the Elusive Elephant Tree

30 Minutes

The seldom seen, endangered elephant tree survives in only a few scattered and isolated spots in California. Join Volunteer Naturalist Karen Cormier at the Visitor Center to find out how to identify these distinctive trees, hear why Native Americans valued the trees, and discover where you can look for elephant tree herds "in the wild."

12:00 a.m. Talk & - "Song Dog" ... The Wiley Coyote

45 minutes

Have you heard them at night? Have you seen them...even during the day? Coyotes are increasing their range and increasing their numbers, and they're right here in Anza-Borrego and in town too. Join Volunteer Naturalist Thad McManus as we explore the myths and realities of our desert neighbor.

12:00 p.m. Talk – Tailgate Tour

1 Hour

Join the only CA State Park pilot, Ranger Kelly McCague, for a special presentation about her responsibilities and see the plane up close. Program will be conducted at the Borrego Springs Airport. Meet her at the airport office and she will take you to the plane.

1:30 a.m. Garden Walk & - Small World

1 Hour

Everyone is impressed with the vast dimensions and stunning vistas of Anza Borrego Desert State Park. The desert is equally impressive on a micro-scale. Stretch your perspective and explore the natural history of the park up close and personal with Volunteer Naturalist Daniel Hellyer for an easy walk around the Visitor Center.

Thursday, February 25

9:00 a.m. Hike – Squeeze through the Slot

3 Hours

Join Volunteer Naturalists Mary Ekelund and Paul Larson on a moderate 3-mile round trip hike through a winding slot canyon with rugged walls and overhanging rocks. You will have to negotiate some tight squeezes and a short climb up a very steep hill. Be sure to bring the usual water, hat, and sturdy footwear. Meet at Buttes Pass Road, 1.5 miles east of Borrego Springs Road on Highway 78.

10:30 a.m. Talk- - ABDSP Fossils – Surprises within Surprises

1 Hour

In this slide presentation investigate recent fossil finds with Volunteer Paleontologist and Naturalist Sandra Keeley. Meet at the Visitor Center Discovery Lab.

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1:00 p.m. Walk & - Desert Scents

1 Hour

Enjoy an easy stroll through the visitor center garden with Volunteer Naturalist Ingrid Coffin. Use your senses on this plant exploration program that meets at the visitor center entrance.

Friday, February 26

7:30 a.m. Bird Walk

Join Volunteer Naturalist Ann Keenan for an easy walk around the Visitor Center Garden looking for the common birds of our desert. All birding levels welcome. Meet in the Visitor Center parking lot. Please bring binoculars and a field guide if you have them. Rain cancels.

7:30 a.m. Talk & Hawk Watch -- New Spring Excitement!!

45 Minutes

You're out looking at flowers, but who are these people looking up into the sky? Join Volunteer Naturalist Joe Hopkins to share what is being learned about Swainson's hawks and this newly discovered migratory phenomenon.

11:00 a.m. Talk 🖔 - Cahuilla Medicine Chest

45 minutes

Join Volunteer Naturalist Mike Bigelow to learn about the medicine chest full of effective treatments that the Cahuilla people utilized long before the first Europeans arrived.

1:30 a.m. Garden Walk & - Small World

1 Hour

Everyone is impressed with the vast dimensions and stunning vistas of Anza Borrego Desert State Park. The desert is equally impressive on a micro-scale. Stretch your perspective and explore the natural history of the park up close and personal with Volunteer Naturalist Daniel Hellyer for a 1 hour easy walk. Meet at the Borrego Palm Canyon.

Saturday, February 27

8:30 a.m. - \$\$ - Poles for Hiking and Walking

7.5 hours

Instructors: Jayah Faye Paley & Bob Haxo, PhD Fee: \$45, or \$35 for ABF members Feel your power and learn how to use your upper body muscles to help preserve your joints and improve your endurance, strength, posture & balance, using top quality poles. Advance registration required. Call 760-767-4063 for details.

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9:00 a.m. Walk – Behind the Ghost Mountain Story: Facts and Fabrications 3 Hours

Learn about the Marshall South family and their experiment in primitive living on a remote mountain top. Join Volunteer Naturalists Mike and Jan Bigelow on this 2 mile round-trip, steep but scenic walk up Ghost Mountain. Bring water, hat, and sturdy footwear. Meet at the Marshall South Home Trailhead in Blair Valley, 3.2 miles off Highway S2.

10:00 a.m. & - Junior Rangers

45 Minutes

Special program for children ages 7-12. Discover secrets of the desert environment. Sign up at the visitor center as space is limited.

11:30 a.m. Talk & - Tracks Tell Tales

45 minutes

Tracks tell the fascinating stories of the lives of our animal neighbors in the Anza Borrego Desert. Meet our Volunteer Naturalist- Tracker Beth Shugan in the Discovery Lab, and start to learn to read these tales of life, and death, in the desert.

7:30 p.m. – Campfire 🖰 - Ranger Encounters!

1 Hour

Join Ranger Don Strampfer to explore the multitude of remarkable experiences a Ranger might encounter while patrolling Anza-Borrego Desert State Park's great expanses! . Meet at the Borrego Palm Canyon Campfire Center Campfire Center. P.S. Campfire songs are always a possibility.

Sunday, February 28

9:00 a.m. - \$\$ - Fishing in the Desert?

7 Hours

Instructor: Dr. Joan Schneider Fee: \$45, or \$35 for ABF members

Join a state park archaeologist and explore prehistoric fishtraps and other evidence of life along the shores of ancient Lake Cahuilla. Advance registration required. Call 760-767-4063 for details.

10:30 p.m. Talk 🖒 - In Search of the Elusive Elephant Tree

30 Minutes

The seldom seen, endangered elephant tree survives in only a few scattered and isolated spots in California. Join Volunteer Naturalist Karen Cormier at the Visitor Center to find out how to identify these distinctive trees, hear why Native Americans valued the trees, and discover where you can look for elephant tree herds "in the wild."

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DESERTSAFETY

✓ Carry water AND drink it

Saving your water for the hike back has led to death in Anza-Borrego. Drink plenty of water before you leave home, while you hike, and on the return route. If you feel thirsty, it is already too late. Drink lots of water and drink often.

✓ Make sure your vehicle is desert-ready.

Equip your vehicle for the desert. You should always carry extra water, a shade tarp, a shovel, a tire pump, and extra food.

✓ Prepare yourself.

In addition to carrying water, you should have protective clothing, sunscreen, a hat, a good map, food and a first aid kit which includes a comb and tweezers.

✓ Have a plan.

Leave all your trip information with a friend. Tell him/her your destination, the route you intend to follow, your expected return time, a description of your vehicle with license plate number, and the time by which he/she should notify park authorities in case you do not return.

✓ Do not split up the group

Stay together. Never leave anyone behind to rest.

✓ Leave snakes alone.

Many venomous snakes live in the desert. If you threaten them, they may strike. It is illegal to harass, catch, or kill any snake within Anza-Borrego. If bitten, remain calm and seek immediate medical attention.

✓ When emergencies happen ...

Stop. Stay calm. Seek shelter. If you are with your vehicle, remain there; do not leave it. Signal with mirrors, white cloth, whistle (three short blasts on a whistle, pause, then three more, repeat frequently), and put your hood up. It is much easier to find a vehicle in the desert than a person!!!

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